Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION		DATE February 1999	
APPROPRIATION/BUDGET ACTIVITY  R-1 ITEM NOMENCLATURE			
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	Endurance Unmanned Aerial Vehicles (EUAV) PE 0305205D8Z		

COST (IN MILLIONS)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total PE Cost	181.165	*	*	*	*	*	*	*	*	*
Project Name/No. and Subtotal Cost Global Hawk (CONV HAE)/P804	93.509	*	*	*	*	*	*	*	*	*
Project Name/No. and Subtotal Cost DarkStar (LO-HAE)/P805	41.898	*	*	*	*	*	*	*	*	*
Project Name/No. and Subtotal Cost HAE Common Ground Segment/P807	45.758	*	*	*	*	*	*	*	*	*
Quantity of RDT&E Articles										

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the EUAV Program funds for FY00-05 were transferred to the Air Force (PE 0305205F).

# A. Mission Description and Budget Item Justification

**Brief Description of Element**: This program includes the Medium Altitude Endurance (MAE) - Conventional High Altitude Endurance (CONV HAE) - Global Hawk; Low Observable High Altitude Endurance (LO HAE) - DarkStar; HAE UAV Common Ground Segment (CGS) and associated support items. These systems will provide all-weather, day/night, reconnaissance and surveillance in direct support of the Joint Forces Commander. They integrate existing airborne reconnaissance architectures for mission planning, data processing, exploitation and dissemination.

									Cost to	Total
COST (IN MILLIONS)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Complete	Cost

Exhibit R-2, RDT&E BU	JDGET ITEM	I JUSTIFICA	TION						DATE Februai	DATE February 1999	
APPROPRIATION/BUDGET ACTIVITY  RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7							R-1 ITEM NOME Endurance Unm PE 0305205D8Z	anned Aerial Veh	nicles (EUAV)		
Total DE Cost 191165 * * * * * * * * * * * * * * * * * * *									*		
Total PE Cost	181.165										
Total Project Cost/No. and Subtotal Cost Global Hawk (CONV HAE)/P804	93.509	*	*	*	*	*	*	*	*	*	
Quantity of RDT&E Articles											

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Global Hawk funds for FY00-05 were transferred to the Air Force (PE 0305205F).

### A. Mission Description and Budget Item Justification

Brief Description of Element: The High Altitude Endurance (HAE) UAV Advanced Concept Technology Demonstration (ACTD) program consists of two types of air vehicles, the Conventional HAE (CONV HAE) - Global Hawk and a Low Observable HAE (LO HAE) - DarkStar, and a Common Ground Segment (CGS), common and interoperable with both types of air vehicles (A/Vs). The DarkStar and HAE UAV Common Ground Segment projects are documented separately. The objective of the program is to place the assets in the hands of the warfighter as quickly as possible to assess the utility of the system in the context of military exercises with other service/theater systems. The execution of the Global Hawk project is dependent on funding of the HAE UAV Common Ground Segment project which contains the ground segment RDT&E, and government developmental and demonstration support funding for both Global Hawk and DarkStar A/Vs. The Global Hawk will provide continuous, all-weather, day/night, wide area reconnaissance and surveillance in direct support of the Joint Forces Commander. The system consists of aircraft, sensors, communications and interfaces to theater systems to support tactical warfighters at various levels of command. The Global Hawk will be a fully automatic, high altitude, long endurance unmanned aircraft that is directly responsive to Theater force tasking. The Global Hawk will integrate with the existing tactical airborne reconnaissance architectures for mission planning, data processing, exploitation, and dissemination. It will provide both wide area search radar and Electro Optical (EO) or Infrared Radar (IR) imagery (40,000 sq nm per mission) at 1m resolution and up to 1900 spot images per mission at 0.3m resolution, and will support targeting accuracy of at least 20m CEP. The Global Hawk is the primary "workhorse" of the HAE UAV ACTD system and will be capable of supporting an estimated

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION		DATE February 1999	
APPROPRIATION/BUDGET ACTIVITY	Endurance Unmanned Aerial Vehicles (		
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	PE 0305205D8Z		

80 percent of all military HAE UAV operational reconnaissance needs. It will be designed for long endurance, high altitude, standoff, image collection capabilities. The Global Hawk will operate in low-to-moderate air defense threat environments with the ability to fly above, standoff, and look into high threat areas. This project is categorized as Budget Activity 7 because it provides for technologies and capabilities in support of Operational System Development.

**Program Accomplishments and Plans: (\$ in millions)** 

**FY 1998 Accomplishments: (\$93.509)** 

- Continued development and integrate design updates (\$24.598)
- Continued fabrication and integration of the demonstration A/Vs (#3, #4, #5) (\$38.319)
- Provided contractor participation in planning for test and evaluation of military utility (\$10.043)
- Provided contractor fabrication, demonstration and evaluation support (\$20.549)

\* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Global Hawk funds for FY00-05 were transferred to the Air Force (PE 0305205F).

Acquisition Strategy: The HAE system will be procured as a design-to-cost program to acquire maximum reconnaissance capability for a firm unit flyaway price (UFP) of \$10M (FY94\$) per vehicle (including payload). Global Hawk was selected at the end of a competition involving multiple contractor teams. Streamlined procurement, using DARPA's Other Transaction Authority, is being used to delete all non value-added tasks and documentation from the program. Under the Developmental Phase agreement, the contractor is responsible for building and testing two Global Hawk air vehicles. As part of this agreement, the contractor will also build a developmental ground segment. During the Demonstration Phase, program management responsibility will transition to the Air Force. Funding for the ACTD program ends in the first quarter of FY2000. Funding for the post ACTD RDT&E and production begins in FY2001.

B. Program Change Summary

Total

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION		DATE February 1999		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE			
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	Endurance Unmanned Aerial Vehicles (E PE 0305205D8Z	UAV)		

	FY 1998	FY 1999	<b>FY 2000</b>	<b>FY 2001</b>	Cost
Previous President's Budget	95.2	*	*	*	*
Net Change	<u>(1.7)</u>	*	*	*	
President's Budget Request	93.5	*	*	*	*

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Global Hawk funds for FY00-05 were transferred to the Air Force (PE 0305205F).

# Change Summary Explanation:

Funding: The change in funding is a result of internal realignments within the DARP.

Schedule: N/A Technical: N/A

## C. Other Program Funding Summary Cost

									To	Total
	FY 1998	FY 1999	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>Complete</b>	Cost
HAE CGS, RDT&E, DW	45.758	*	*	*	*	*	*	*	*	*
DarkStar, RDT&E, DW	41.898	*	*	*	*	*	*	*	*	*

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Global Hawk funds for FY00-05 were transferred to the Air Force (PE 0305205F).

### D. Schedule Profile

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION					DATE February 1999
APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLA	-	·
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7			Endurance Unmanned PE 0305205D8Z	Aerial Vehicles (El	UAV)
Fiscal Year actual and planned events by quarter	FY 1998 1 2 3 4	FY 1999 1 2 3 4	1 2 3 4	1 FY 2001 1 2 3 4	
<b>Test &amp; Evaluation Milestones</b>					
Flight Readiness Review	_ <b>X</b>				
Start Developmental Flight Tests	X				
Contract Milestones					

X

X

**Demonstration Support Award** 

Fabricate Demonstration Air Vehicles

**Other Program Events** 

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Global Hawk funds for FY00-05 were transferred to the Air Force (PE 0305205F).

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION		DATE February 1999
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE Endurance Unmanned Aerial Vehicles (E	CUAV)
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	PE 0305205D8Z	

COST (IN MILLIONS)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total PE Cost	181.165	*	*	*	*	*	*	*	*	*
Total Project Cost/No. and Subtotal Cost DarkStar (LO-HAE)/P805	41.898	*	*	*	*	*	*	*	*	*
Quantity of RDT&E Articles										

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the DarkStar funds for FY00-05 were transferred to the Air Force (PE 0305205F).

# A. Mission Description and Budget Item Justification

Brief Description of Element: The High Altitude Endurance (HAE) UAV Advanced Concept Technology Demonstration (ACTD) program consists of two types of air vehicles, the Conventional HAE (CONV HAE) - Global Hawk and a Low Observable HAE (LO HAE) - DarkStar, and a Common Ground Segment (CGS), common and interoperable with both types of air vehicles. The Global Hawk and the HAE UAV Common Ground Segment projects are documented separately. The objective of this program is to place the assets in the hands of the warfighter as quickly as possible to assess the utility of the system via military exercises with other service/theater systems. The execution of the DarkStar project is dependent on funding of the HAE UAV Common Ground Segment project which contains the ground segment RDT&E and government developmental and demonstration support funding for both DarkStar and Global Hawk A/Vs. The DarkStar will provide continuous, all-weather, day/night, wide area reconnaissance and surveillance in direct support of the Joint Forces Commander. The system consists of aircraft, sensors, communications and interfaces to theater systems to support tactical warfighters at various levels of command. The DarkStar will integrate with the existing tactical airborne reconnaissance architectures for mission planning, data processing, exploitation, and dissemination. The DarkStar will provide wide area search, over 15,000 sq nm per mission, with either the Electro Optical (EO) or Synthetic Aperture Radar (SAR) sensors at 1m resolution. In addition, the DarkStar is capable of 600 spot images per mission with either sensor at 0.3m resolution. The search and spot modes can be interleaved with attendant reductions in the overall coverage. The system will support a targeting accuracy of at least 20m CEP. The stealth capabilities of the DarkStar allow the system to operate in high threat environments before

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION		DATE February 1999
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE Endurance Unmanned Aerial Vehicles (E PE 0305205D8Z	CUAV)
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	12 0000200000	

suppression of enemy air defenses (SEAD) where manned reconnaissance and the Global Hawk are not viable options. The optimization of this UAV for survivability means the UAV is less capable than the Global Hawk in terms of total endurance and payload capability. This project is categorized as Budget Activity 7 because it provides for technologies and capabilities in support of Operational System Development.

# **Program Accomplishments and Plans:** (\$ in millions)

# **FY 1998 Accomplishments: (\$41.898)**

- Continued fabrication of DarkStar demonstration A/Vs (#3, #4) (\$10.085)
- Completed rebuild and checkout of DarkStar A/V #2 (\$14.845)
- Completed development of DarkStar to include qualification of an operational configuration air data system (\$0.829)
- Provided contractor participation in planning for test and evaluation of military utility (\$7.759)
- Provided fabrication, demonstration and evaluation support (\$8.380)

Acquisition Strategy: The LO HAE system will be procured as a design-to-cost program to acquire the most reconnaissance capability for a firm unit flyaway price of \$10 million (FY94\$) per air vehicle (including payload). DarkStar was a sole-source award that leveraged substantial previous government investment in low-observable technology. Streamlined procurement using DARPA's Other Transaction Authority is being used to delete all non value-added tasks and documentation from the program. During the Demonstration Phase (previously referred to as Phase III), program management responsibility will transition to the Air Force. Funding for the ACTD program ends in the first quarter of FY2000. Funding for post ACTD and production begins in FY 2001.

## B. Program Change Summary

Total

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the DarkStar funds for FY00-05 were transferred to the Air Force (PE 0305205F).

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION		DATE February 1999
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	Endurance Unmanned Aerial Vehicles (I PE 0305205D8Z	EUAV)

	<u>FY 1998</u>	<u>FY 1999</u>	<b>FY 2000</b>	<b>FY 2001</b>	Cost
Previous President's Budget	42.6	*	*	*	*
Net Change	<u>(.7)</u>				
President's Budget Request	41.9	*	*	*	*

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the DarkStar funds for FY00-05 were transferred to the Air Force (PE 0305205F).

# Change Summary Explanation:

Funding: The change in funding is a result of internal realignments within the DARP.

Schedule: N/A Technical: N/A

# C. Other Program Funding Summary Cost

									То	Total
	FY 1998	FY 1999	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	FY 2005	<b>Complete</b>	<b>Cost</b>
Global Hawk, RDT&E, DW	93.509	*	*	*	*	*	*	*	*	*
HAE CGS, RDT&E, DW	45.758	*	*	*	*	*	*	*	*	*

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the DarkStar funds for FY00-05 were transferred to the Air Force (PE 0305205F).

### D. Schedule Profile

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION		DATE February 1999
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	T ( A T / )
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	Endurance Unmanned Aerial Vehicles (EUAV) PE 0305205D8Z	

Fiscal Year actual and planned events by quarter

	FY 1998 1 2 3 4	FY 1999 1 2 3 4	$\frac{\text{FY } 2000}{2 - 3} 4$	$\frac{\text{FY } 2001}{2  3  4}$
<b>Test &amp; Evaluation Milestones</b>	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Resume Developmental Flight Tests	X			
Contract Milestones				
Demonstration Support Agreement Award	X			
Other Program Events				
Fabricate Demonstration Air Vehicles		X		

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the DarkStar funds for FY00-05 were transferred to the Air Force (PE 0305205F).

Exhibit R-3, RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN	DATE September 1998
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE Endurance Unmanned Aerial Vehicles (EUAV)
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	PE 0305205D8Z/P806

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION		DATE February 1999
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	Endurance Unmanned Aerial Vehicles (E PE 0305205D8Z	CUAV)

COST (IN MILLIONS)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
Total PE Cost	181.165	*	*	*	*	*	*	*	*	*
Total Project Cost/No. Subtotal Cost HAE Common Ground Segment/P807	45.758	*	*	*	*	*	*	*	*	*
Quantity of RDT&E Articles										

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the CGS funds for FY00-05 were transferred to the Air Force (PE 0305205F).

### A. Mission Description and Budget Item Justification

Brief Description of Element: The High Altitude Endurance (HAE) UAV Advanced Concept Technology Demonstration (ACTD) program consists of two types of air vehicles, the Conventional HAE (CONV HAE) - Global Hawk and a Low Observable HAE (LO HAE) - DarkStar, and a Common Ground Segment (CGS) which is interoperable with both types of air vehicles. The HAE UAV CGS is comprised of a Launch and Recovery Element (LRE), a Mission Control Element (MCE), and associated logistics support activities. The HAE UAV Common Ground Segment integrates many technologies for communications between the Global Hawk, DarkStar, and exploitation centers/users. Without the HAE UAV Common Ground Segment project, the Global Hawk and DarkStar projects cannot be executed. The LRE prepares, launches, and recovers the air vehicles. The MCE plans and executes the mission; dynamically re-tasks the air vehicles, including the sensors; and processes, stores and/or disseminates the data as required. The CGS supports tactical warfighters at various levels of command with digital, near real-time, high quality imagery in exploitable form. Prior to fielding of an integrated CGS, an Interim Ground Segment (IGS) composed of the Global Hawk LRE #1/MCE #1, and the DarkStar Launch Control Recovery System (LCRS) and Data Processing Element (DPE) will be used to conduct flight test and CGS development. The HAE UAV CGS project also funds government support and studies, GFE, and field demonstration support for both the Global Hawk and DarkStar systems. This Project is categorized as Budget Activity 7 because it provides funds for technologies and capabilities in support of Operational System Development.

**Program Accomplishments and Plans: (\$ in millions)** 

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION	DATE February 1999
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	Endurance Unmanned Aerial Vehicles (EUAV) PE 0305205D8Z

### **FY 1998 Accomplishments: (\$45.758)**

- Completed development, integration and testing of developmental CGS (IGS) and performance testing with DarkStar A/V (\$11.103)
- Continued development of enhanced planning capability for Global Hawk and DarkStar to support military utility evaluation (\$4.337)
- Continued development and test of demonstration CGS (\$10.822)
- Provided contractor participation in planning for test and evaluation of military utility (\$1.641)
- Provided government test and evaluation support (\$5.949)
- Conducted service exploitation system interface development for integration and test (\$1.270)
- Performed CGS, Global Hawk, and DarkStar government support, studies, and related tasks (\$9.867)
- Conducted assessment of Y2K impact on HAE UAV system (\$0.769)

Acquisition Strategy: The HAE UAV Common program provides the ground segment and support items common to the Global Hawk and DarkStar demonstrations. During the development phase, the ground segment originally designed for Global Hawk will be modified to include the capability to; 1) launch and recover; 2) command and control; and 3) receive, process, and disseminate DarkStar sensor data. Addition of this capability defines the Common Ground Segment (CGS) configuration. One (1) developmental and one (1) demonstration CGS are planned to be fabricated during the ACTD. Streamlined procurement, using DARPA's Other Transaction Authority, is being used to delete all non value-added tasks and documentation from the program. During the Demonstration Phase, program management responsibility will transition to the Air Force. Funding for the ACTD program ends in the first quarter of FY 2000. Funding for post ACTD RDT&E begins in FY2001.

B. Program Change Summary FY 1998 FY 1999 FY 2000 FY 2001 Total Cost

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the CGS funds for FY00-05 were transferred to the Air Force (PE 0305205F).

Exhibit R-2, RDT&E BUDGET ITEM JUST	TIFICATION				DATE February 1999
APPROPRIATION/BUDGET ACTIVITY				NOMENCLATURE ce Unmanned Aerial Vel	hicles (EUAV)
RDT&E, DEFENSE-WIDE/BUDGET ACTIVIT	ГҮ 7		PE 0305		metes (Berry)
Previous President's Budget	46.6	*	*	*	*
Net Change	<u>(.8)</u>				
President's Budget Request	45.8	*	*	*	*

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the CGS funds for FY00-05 were transferred to the Air Force (PE 0305205F).

# Change Summary Explanation:

Funding: The change in funding is a result of internal realignments within the DARP.

Schedule: N/A Technical: N/A

### C. Other Program Funding Summary Cost

									10	Total
	FY 1998	FY 1999	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>Complete</b>	Cost
Global Hawk, RDT&E, DW	93.509	*	*	*	*	*	*	*	*	*
DarkStar, RDT&E, DW	41.898	*	*	*	*	*	*	*	*	*

<u>Related Activities</u>. The Global Hawk program cannot be executed without the complementary HAE UAV Common Ground Segment project. This project also supports the DarkStar project.

### **D.** Schedule Profile

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the CGS funds for FY 00-05 were transferred to the Air Force (PE 0305205F).

Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION	DATE February 1999
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7	Endurance Unmanned Aerial Vehicles (EUAV) PE 0305205D8Z

Fiscal Year actual and planned events by quarter.

	$1\frac{\text{FY }1998}{2}4$	$\frac{\text{FY } 1999}{2 \ 3} 4$	$1\frac{\text{FY }2000}{23}4$	$1\frac{\text{FY }2001}{2}$
<b>Test &amp; Evaluation Milestones</b>				
Flight Readiness Review	X			
Start Developmental Flight Test with Global	X			
Hawk				
<b>Contract Milestones</b>				
Demonstration Support Agreement Award	X			
Other Program Events				
Fabricate Demonstration Common Ground		- X		
Segment (CGS)				

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the CGS funds for FY00-05 were transferred to the Air Force (PE 0305205F).

										DATE February 1999				
APPROPRIATION/BUDGET ACTIVITY	Y		PROGRAM	I ELEME	NT			PROJECT NAME AND NUMBER						
RDT&E, DEFENSE-WIDE/BUDGET A	CTIVITY 7		PE 030520	5D8Z					Endurance Unmanned Aerial Vehicles (EUAV)/P804					
Cost Categories (Tailor to WBS, or System/Item	Contract Method	Performing Activity &	Total					2001 Award	Cost to	Total	Target Value of			
Requirements)	& Type	Location		Cost*	Date	Cost *	Date	Cost *		Cost to Complete *	Cost *	Contract		
AV 3-5 Fabrication	C/CPFF/IF/AF	Teledyne Ryan Aeronautical (TRA)	12.846		Date	0001	Bato	0001	Bato	Complete	0001	Communic		
Development & Test/AV 1&2 Fabric.	C/CPFF/IF													
Award Fee for AV 3-5 Fabrication	AF		2.108											
Contractor Acquired Property	C/CPFF	TRA	_											
Miscellaneous			1.025											
Subtotal Product Development			87.463											
Development Support														
Software Development														
Training Development														
Integrated Logistics Support														
Configuration Management														
Technical Data														
GFE														
Subtotal Support														
Remarks														

**Exhibit R-3, Project Cost Analysis** (Exhibit R-3, page 1 of 2)

Exhibit R-3 Cost Analysis (page 2)	DATE February 1999												
APPROPRIATION/BUDGET ACTIVIT	ΓΥ		PROGRAM	Л ELEME	NT			PROJECT NAME AND NUMBER					
RDT&E, DEFENSE-WIDE/BUDGET	ACTIVITY 7		PE 030520	PE 0305205D8Z						Endurance Unmanned Aerial Vehicles (EUAV)/P804			
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method	Performing Activity &	Total PY Cost	1999 Cost*	1999 Award Date	2000 Cost *	2000 Award Date	2001 Cost	2001 Award	Cost to	Total Cost *	Target Value of Contract	
Demonstration & Evaluation Support	& Type C/CPFF/IF	Location TR			Date	Cost	Date	Cost	Date	Complete *	Cost	Contract	
Integrated Logistics Support	C/CPFF											_	
Tooling												+	
GFE													
Subtotal T&E			6.046										
Remarks													
Contractor Engineering Support													
Government Engineering Support												_	
Program Management Support													
Program Management Personnel													
Travel													
Labor (Research Personnel)													
Overhead												_	
Subtotal Management													
Remarks													
Total Cost			93.509										
Remarks		I		1									
	* Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the Global Hawk funds for FY00-05 were transferred to the Air Force (PE 0305205F).												

(Exhibit R-3, page 2 of 2)

										DATE February 1999				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM	/ ELEME	ENT				PROJECT NAME AND NUMBER					
RDT&E, DEFENSE-WIDE/BUDGET AC	TIVITY 7		PE 030520	PE 0305205D8Z						Endurance Unmanned Aerial Vehicles (EUAV)/P805				
Cost Categories (Tailor to WBS, or System/Item Requirements) Air Vehicle (AV) 3-4 Fabrication	Contract Method & Type SS/CPIF	Performing Activity & Location Lockheed Martin	Total PY Cost 6.146	1999 Cost*	1999 Award Date	2000 Cost *	2000 Award Date	2001 Cost *	2001 Award Date	Cost to Complete *	Total Cost *	Target Value of Contract		
Design, Develop and Fabricate AV 1-2	SS/CPIF	Palmdale, CA	27.994											
Miscellaneous														
GFE														
Award Fees														
Subtotal Product Development			34.140											
				II.										
Development Support														
Software Development														
Training Development														
Integrated Logistics Support														
Configuration Management Technical Data														
GFE														
Subtotal Support														
Remarks														

Exhibit R-3, Project Cost Analysis (Exhibit R-3, page 1 of 2)

										DATE			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT						February 1999 PROJECT NAME AND NUMBER				
ALL KOLKIATION/BOBGET ACTIVITY			I KOOKAI	I NOONAINI ELEIVIENI						ANE AND NO	VIDEIX		
RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7			PE 030520	05D8Z						Inmanned Aeria	al Vehicles		
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY Cost	1999 Cost*	1999 Award Date	2000 Cost *	2000 Award Date	2001 Cost '	2001 Award Date	Cost to Complete *	Total Cost *	Target Value of Contract	
Demonstration and Evaluation Support	SS/CPIF	LMSW	7.758										
Subtotal T&E			7.758										
Remarks								I					
Contractor Engineering Support													
Government Engineering Support													
Program Management Support													
Program Management Personnel													
Travel													
Labor (Research Personnel)													
Overhead													
Subtotal Management													
Remarks				•				•	<u> </u>		•		
Total Cost			41.898										
Remarks	•		"		*	•			"				
* Per the FY 1999 Appropriations Act, the funds for FY00-05 were transferred to the			ed to the Serv	rices/Defe	ense Agen	cies in vai	rious PEs;	per the	Program Dec	ision Memoran	dum (PDM	), the DarkStar	

(Exhibit R-3, page 2 of 2)

									DATE February 1999				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM	Л ELEME	NT			PROJECT NAME AND NUMBER					
RDT&E, DEFENSE-WIDE/BUDGET ACT	PE 030520	)5D8Z					Endurance Unmanned Aerial Vehicles (EUAV)/P807						
Cost Categories (Tailor to WBS, or System/Item	Contract Method	Performing Activity &	Total						2001 Award	Cost to	Total	Target Value of	
Requirements) Fabricate Demonstration CGS		Location Raytheon Systems Group (RSG), Falls Church, VA	Cost 12.956	Cost*	Date	Cost *	Date	Cost *	Date	Complete *	Cost *	Contract	
Fabricate Developmental CGS	C/CPAF	RSG	24.240										
User Recommended Improvements	C/CPAF		3.343										
Common Imagery Processor	C/CPAF	ESC, Hanscom AFB	1.255										
Miscellaneous													
Subtotal Product Development			41.794										
Development Support													
Software Development													
Training Development													
Integrated Logistics Support													
Configuration Management													
Technical Data													
Miscellaneous													
Subtotal Support													
Remarks													

**Exhibit R-3, Project Cost Analysis** (Exhibit R-3, page 1 of 2)

Exhibit R-3 Cost Analysis (page 2)									DATE February 1999				
APPROPRIATION/BUDGET ACTIVI	TY		PROGRAM	M ELEME	ENT			PROJECT NAME AND NUMBER					
RDT&E, DEFENSE-WIDE/BUDGET	ACTIVITY 7		PE 030520	)5D8Z				Endurance Unmanned Aerial Vehicles (EUAV)/P807					
Cost Categories (Tailor to WBS, or System/Item Requirements) Government Support	Contract Method & Type	Performing Activity & Location AFFTC/Edwards AFB	Total PY Cost	1999 Cost*	1999 Award Date	2000 Cost *	2000 Award Date	2001 Cost	2001 Award	Cost to Complete *	Total Cost *	Target Value of Contract	
Government Support		AFOTEC/Kirtland AFE											
Government Support		NAWC-AD/Pax River	.726										
CGS Spares	C/CPFF	RSG	.938										
Repair Support													
CGS Demonstration Support	C/CPFF	RSG	0.100										
Miscellaneous													
Subtotal T&E			3.964										
Contractor Engineering Support													
Government Engineering Support													
Program Support													
Miscellaneous													
Travel													
Labor (Research Personnel)													
Overhead													
Subtotal Management													
Remarks													
. Comano													
Total Cost			45.758										
Remarks		L	1	F.		- F	- F	- 1	I	L	1	1	

(Exhibit R-3, page 2 of 2)

<sup>\*</sup> Per the FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the HAE CGS funds for FY00-05 were transferred to the Air Force (PE 0305205F).